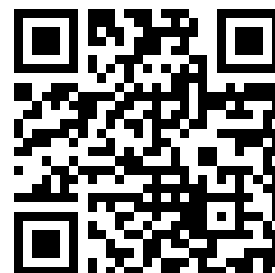

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U.S. CIVIL AIRMEN STATISTICS



JUNE 1974

U. S. DEPARTMENT OF TRANSPORTATION

U.S. FEDERAL AVIATION ADMINISTRATION

OFFICE OF MANAGEMENT SYSTEMS

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PREFACE

The 1973 U.S. Civil Airmen Statistics is the fifth edition of an annual study published to meet the demands of FAA, other government agencies, and industry for more detailed airmen statistics than those published in other FAA reports. The collection and dissemination of expanded aircraft data have created a need for more compatible airmen statistics. This information is required to establish more valid relationships between aircraft and airmen and to furnish more realistic bench marks for measuring trends in the civil airmen counts and their overall effect on the various segments of aviation. The distribution of regional data has been revised to conform to the Ten Region Concept emanating from the President's desire to have a common field alignment of major FAA field structures.

Statistics pertaining to airmen, both pilot and nonpilot, were obtained from the official airman certification records maintained by the Data Services Division, of the FAA Aeronautical Center, at Oklahoma City, Oklahoma.

This study was prepared in the Office of Management Systems, Information and Statistics Division, Information and Service Branch (AMS-220), by Patricia Wilson.

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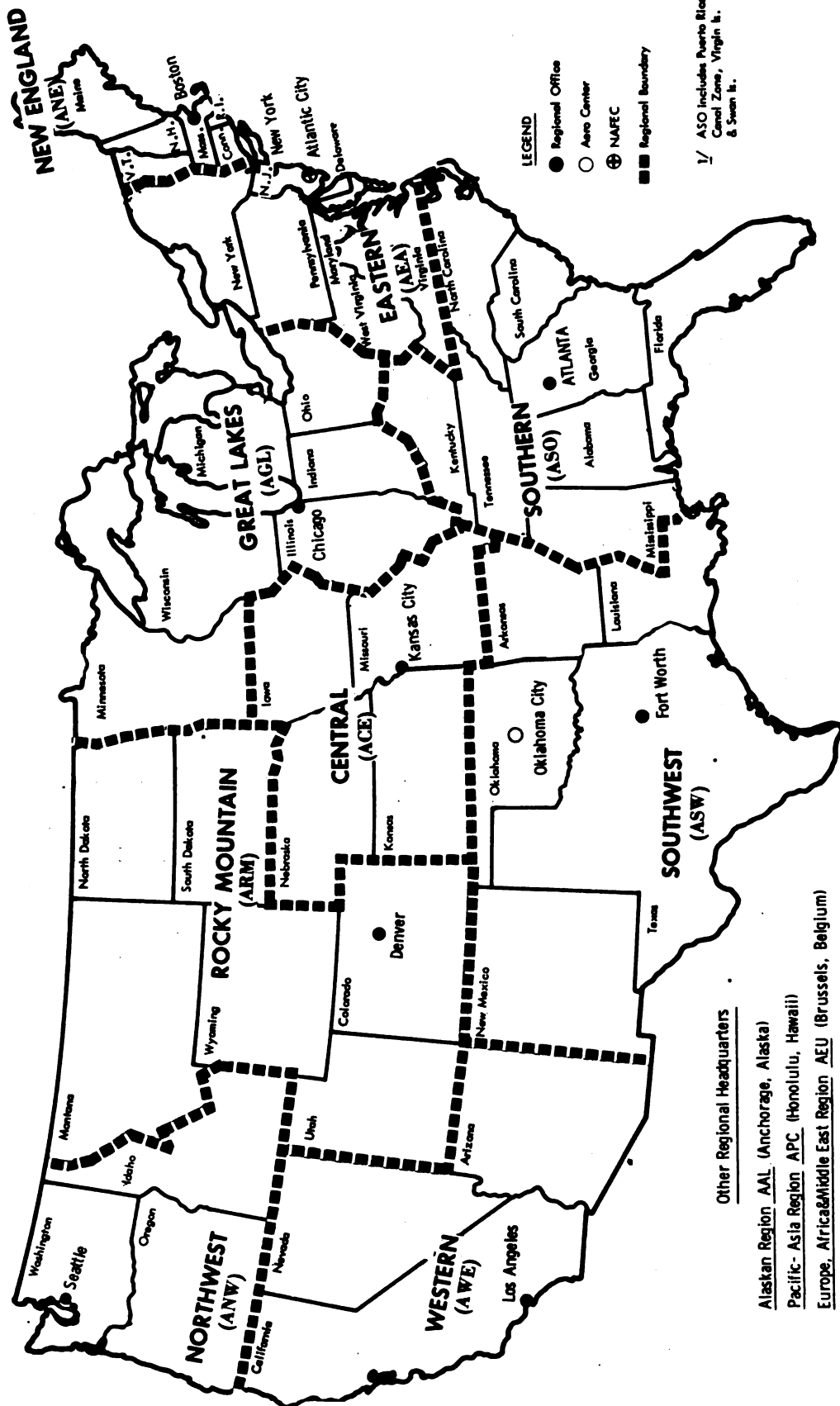
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FAA REGIONAL BOUNDARIES

Including Locations of Regional Headquarters & Centers



Other Regional Headquarters

Alaskan Region AAL (Anchorage, Alaska)
 Pacific- Asia Region APC (Honolulu, Hawaii)
 Europe, Africa & Middle East Region AEU (Brussels, Belgium)

(For regional boundaries of above listed regions, see MIM Chart 11.08).

I. ACTIVE PILOT CERTIFICATES HELD

At the close of 1973 the active pilot count totaled 714,607, compared with 750,869 at the end of 1972. The total count includes all pilots with current medical certificates; it also includes pilots who no longer fly but desire to keep their active status by periodic medical examinations. The decrease in the number of airmen resulted from a purging of the Airmen Certification files. During this process approximately 26 thousand duplicates or faulty records were eliminated.

The number of student pilots increased from 181,477 in 1972 to 181,905 in 1973. Private pilots accounted for 42 percent of the current pilot count; private pilots ratings for 1973 were 298,921.

Pilots with commercial ratings represented 26 percent of the 1973 total pilot count, their number totaling 182,444. The number of airline transport rated pilots increased 1 percent from 37,714 to 39,139. Despite fluctuations in their growth rate, by 1984 ATR pilots should total 53,800.

As noted in Figure 4, only slight changes occurred in the age distribution of ATR pilots. Approximately 53 percent of all ATR's were in the age groups under 45 years. The remaining 47 percent were 45 years and over.

In 1973, helicopter only pilots totaled 5,968. In addition there were 21,794 with multiple ratings, including helicopter ratings. Together they totaled 27,762. More detailed data pertaining to all pilots with ratings to fly helicopters are shown in tables 6 and 8.

There were 4,288 pilots rated to fly gliders only. In addition, there were 9,107 pilots with multiple ratings, which included glider ratings. Together they totaled 13,395. The vast proportionate growth in the number of glider pilots forecast for 1984 should up the number of single rating glider pilots to 14,000. Additional data pertaining to total helicopter and glider pilots appear in tables 6 and 8.

Flight instructors decreased 3 percent from 37,858 to 36,795. Despite the small decrease registered in 1973, and the slight gain in 1972, the number of flight instructors may be expected to resume their uptrend; but at a rather moderate rate of growth.

The number of instrument rated pilots decreased 1 percent from 187,909 to 185,696. Agency forecast indicate a high correlation between the implementation of safety programs and the number of pilots with IFR ratings. By 1984, this figure should reach a high of 397,000.

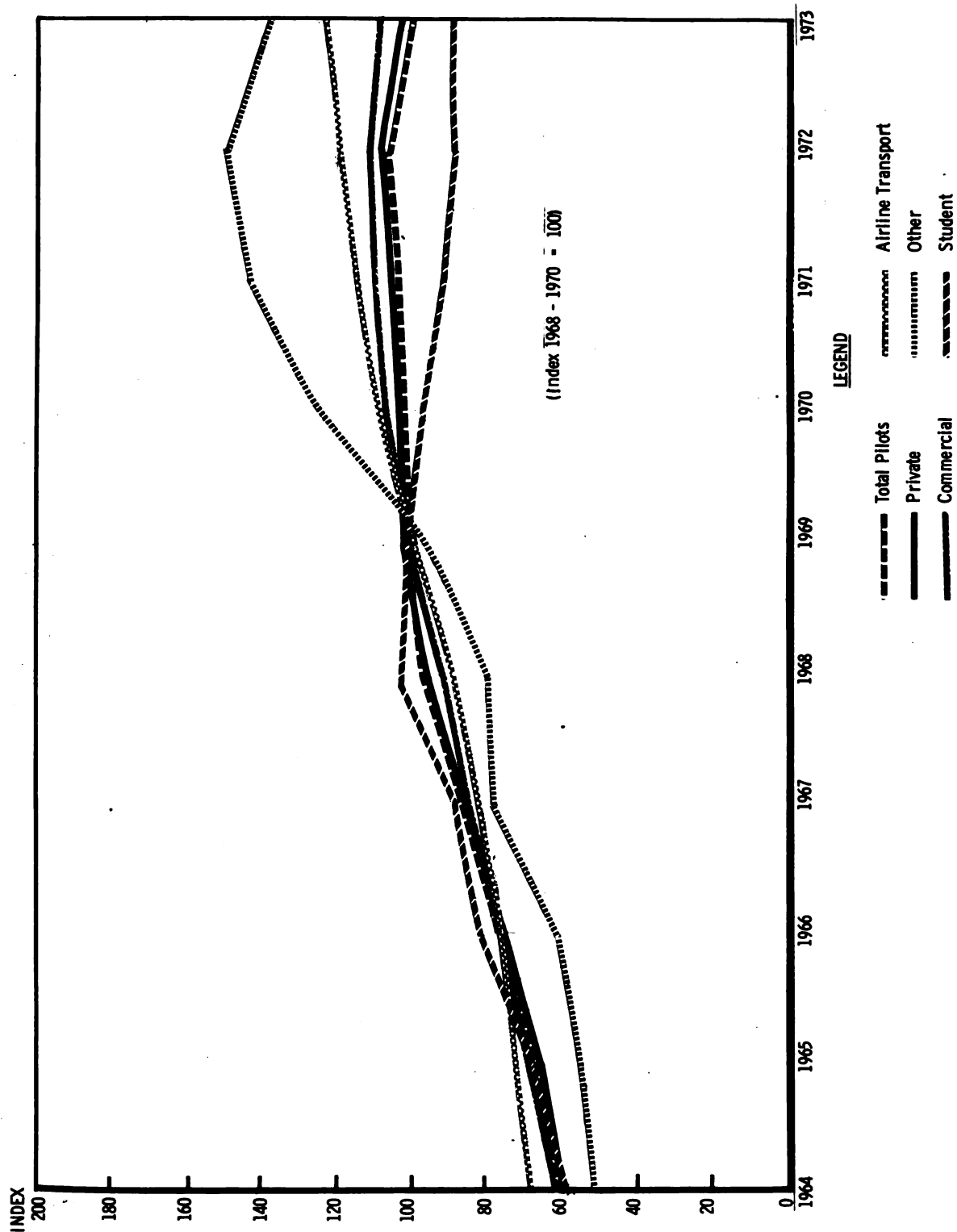


Figure 2. Active Pilot Certificates Held: December 31, 1963 - 72.

Table 1.--Active Airman Certificates Held: December 31, 1964-73

Category	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Pilot--total	431,041	479,770	548,757	617,931	691,695	720,028	732,729	741,009	750,869	714,607
Student	120,743	139,172	165,177	181,287	209,406	203,520	195,861	186,428	181,477	181,905
Private	175,574	196,393	222,427	253,312	281,728	299,491	303,779	312,656	321,413	298,921
Commercial	108,428	116,665	131,539	150,135	164,458	176,585	186,821	192,409	196,228	182,444
Airline transport	21,572	22,440	23,917	25,817	28,607	31,442	34,430	35,949	37,714	38,139
Helicopter (only)	1,058	1,392	1,819	2,573	3,166	4,286	6,677	7,992	7,987	5,968
Glider (only)	1,227	1,411	1,602	1,866	2,193	2,627	3,114	3,571	4,080	4,288
Other pilot	2,439	2,297	2,276	1/2,941	2,137	2,077	2,047	2,004	1,970	2,942
Non-pilot--total ...	195,396	204,463	217,132	231,801	250,151	269,775	289,681	307,057	315,348	304,747
Mechanic	130,131	135,351	140,799	146,572	158,211	170,716	184,647	193,295	201,700	193,337
Parachute rigger.	4,226	4,584	4,927	5,347	5,700	6,070	6,424	6,839	7,287	6,941
Ground instructor	30,801	31,403	32,217	34,262	37,889	41,234	44,176	46,145	48,450	46,827
Dispatcher	3,961	4,104	4,259	4,441	4,766	5,026	5,293	5,480	5,637	5,527
Control tower operator	14,304	14,875	16,046	17,425	18,610	19,851	21,032	26,450	23,353	23,250
Flight navigator ^{1/}	1,625	1,797	2,384	2,891	2,966	3,011	2,950	3,052	2,937	2,636
Flight engineer ..	10,348	12,349	16,500	20,863	22,009	23,867	25,159	25,796	25,964	26,229
Flight instructor certificates	32,158	34,904	38,897	44,421	30,361	33,992	37,822	37,760	37,858	36,795
Instrument ratings ^{2/}	84,442	93,637	107,171	122,573	139,346	155,879	169,848	179,261	187,909	185,696

^{1/}No medical examination required, therefore, no determination as to activity can be made. Numbers represent all certificates on record.

^{2/}Special ratings shown on pilot certificates represented above; hence do not indicate additional certificates.

r/Revised

Table 2.--Women Actively Engaged in Aviation: December 31, 1964-73

Category of certificates held	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973
Total certificates held	17,279	20,303	23,180	26,771	31,639	32,891	33,139	34,509	36,595	37,430
Pilot--total	14,627	17,555	20,265	23,659	28,401	29,419	29,472	31,096	33,001	34,356
Student	8,179	10,106	11,424	13,173	16,234	16,055	15,787	16,417	17,053	18,593
Private	5,218	6,147	7,319	8,775	10,164	11,174	11,409	12,332	13,391	13,232
Commercial	1,047	1,137	1,317	1,479	1,691	1,824	1,897	2,032	2,196	2,083
Airline transport	55	40	61	57	71	76	79	88	101	95
Helicopter (only)	6	10	14	16	16	14	6	9	10	7
Glider (only) ...	43	51	70	77	91	111	141	169	201	216
Other categories	79	64	60	82	134	165	153	169	49	130
Nonpilot--total	2,235	2,280	2,376	2,477	2,707	2,912	3,078	3,413	3,594	3,074
Mechanic	166	182	197	196	229	269	302	322	349	284
Parachute rigger	411	415	426	434	445	449	461	470	483	336
Ground instructor	1,477	1,505	1,573	1,637	1,769	1,917	2,006	2,081	2,166	1,960
Dispatcher	23	23	23	28	30	36	38	39	40	39
Control tower operator	155	152	149	165	205	222	271	501	556	453
Flight engineer	3	3	8	16	28	18	---	---	---	2
Flight navigator	---	---	---	1	1	1	---	---	---	---
Flight instructor	417	468	539	635	531	560	589	646	664	618

Rotocraft (only) pilots--total	5,988	215	862	590	382	1,377	916	234	736	343	54	31	128
Private gyroplane	5	---	---	1	---	1	---	1	2	---	---	---	---
Commercial gyroplane	1	---	---	1	---	---	---	---	---	---	---	---	---
Private helicopter	277	11	76	53	11	32	23	2	48	11	1	---	9
Commercial helicopter	5,619	202	775	624	369	1,334	889	229	674	329	52	31	111
Commercial helicopter, private glider ..	8	---	1	3	---	2	---	1	1	---	---	---	---
Commercial helicopter, commercial glider	6	1	2	---	1	1	---	---	1	---	---	---	---
Commercial helicopter, commercial gyro-	4	---	---	---	---	---	---	---	2	---	---	---	---
plane	45	1	6	8	---	1	4	---	8	3	1	---	8
Airline transport helicopter	3	---	2	---	---	---	---	1	---	---	---	---	---
Rotocraft (other)	---	---	---	---	---	---	---	---	---	---	---	---	---
Glider (only)--total	4,288	281	860	556	22	277	241	418	1,259	133	5	62	104
Private glider	3,543	224	722	450	56	224	173	349	1,073	121	3	52	76
Commercial glider	745	57	138	106	36	53	68	49	186	12	2	10	28
Other pilots--total	2,942	135	447	930	143	488	296	102	493	92	10	10	65
Total--all nonpilot	304,747	15,953	54,736	36,067	16,221	47,114	35,493	10,234	58,946	9,340	2,311	2,342	13,990
Mechanic 1/	193,337	10,440	37,361	23,237	10,780	27,629	22,119	5,534	38,635	5,056	1,458	1,782	9,286
Parachute rigger 1/	6,941	314	1,132	914	334	1,288	705	406	1,090	361	64	31	302
Ground instructor 2/	46,827	2,251	7,372	7,186	3,104	7,146	6,145	2,194	7,881	1,494	373	160	1,521
Dispatcher 1/	5,527	130	1,340	388	132	882	256	129	817	67	95	92	1,199
Control tower operator	23,250	998	3,245	2,911	1,147	4,989	3,414	883	3,594	943	224	199	703
Flight navigator	2,656	247	553	77	19	342	93	50	842	143	15	20	235
Flight engineer	26,229	1,573	3,733	3,354	705	4,838	2,761	1,038	6,067	1,276	82	58	744
Flight instructor certificates--total	36,795	1,456	5,237	6,737	2,169	5,502	4,808	1,782	6,079	2,034	380	151	380
Instrument ratings 2/	195,969	8,338	26,993	28,314	9,644	32,184	23,651	7,541	33,319	8,420	1,430	976	5,159

1/ Total ratings issued to date. These ratings retain their validity without periodic medical examinations.
2/ Special ratings shown on pilot certificates represented above, hence, do not indicate additional ratings.

Figure 3. Active Private Pilots: December 31, 1973

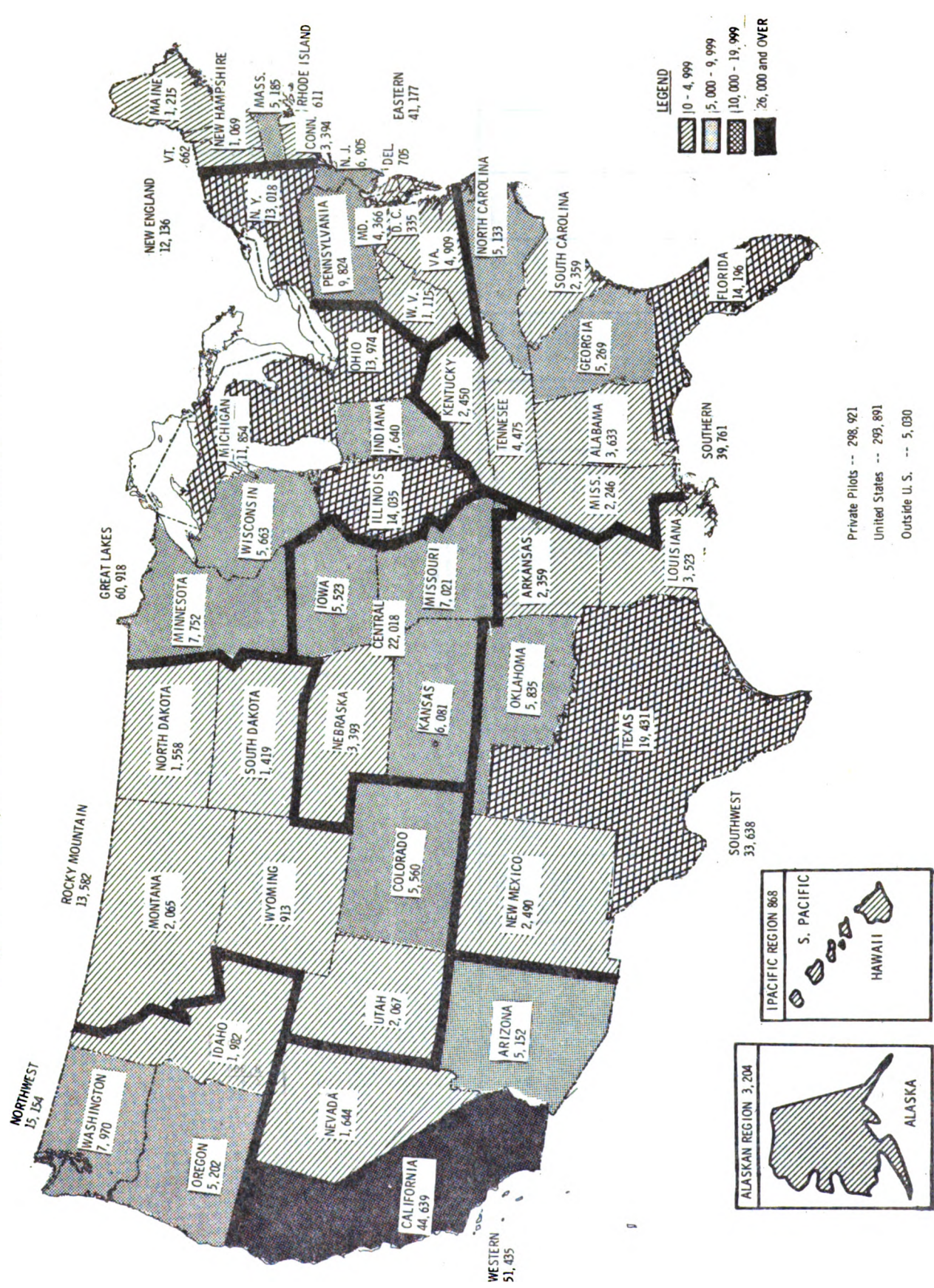


Table 4.—Total Active Pilots and Flight Instructors by FAA Region and State: December 31, 1973

FAA region and state	Total pilots	Airline transport	Commercial	Private	Other pilot categories	Student	Flight instructor ^{1/}
Total	2,714,607	38,139	182,444	298,921	13,198	181,905	36,795
United States—total	700,376	36,086	178,724	293,891	12,901	178,774	36,415
New England—total	31,160	2,165	7,616	12,136	631	8,612	1,456
Maine	3,240	96	849	1,215	45	1,035	152
New Hampshire	3,098	355	888	1,069	72	714	139
Rhode Island	1,634	50	512	611	23	438	75
Massachusetts	12,554	580	2,795	5,185	288	3,706	574
Connecticut	9,123	1,026	2,232	3,394	174	2,297	439
Vermont	1,511	58	340	662	29	422	77
Eastern—total	101,646	5,664	24,666	41,177	2,169	27,970	5,237
New York	30,686	1,562	6,444	13,018	764	8,898	1,468
Pennsylvania	22,613	1,020	4,944	9,824	414	6,411	1,279
Virginia	14,880	945	5,113	4,909	334	3,579	705
Maryland	10,464	437	2,663	4,366	219	2,779	499
West Virginia	2,739	74	581	1,115	47	922	157
Delaware	1,743	115	478	705	28	417	95
New Jersey	17,755	1,493	4,285	6,905	339	4,733	908
District of Columbia ..	766	18	158	335	24	231	26
Great Lakes—total	130,377	4,924	27,143	60,918	1,896	35,496	6,737
Illinois	32,091	1,852	7,292	14,035	571	8,341	1,715
Indiana	15,776	329	3,154	7,640	163	4,490	862
Minnesota	16,742	858	3,818	7,752	195	4,119	693
Michigan	24,409	727	4,479	11,854	344	7,005	1,171
Ohio	29,724	777	6,064	13,974	477	8,432	1,658
Wisconsin	11,635	381	2,336	5,663	146	3,109	638
Central—total	46,201	1,531	10,549	22,018	619	11,484	2,169
Kansas	12,722	466	3,123	6,081	174	2,878	559
Iowa	10,628	143	2,110	5,523	136	2,714	482
Missouri	15,766	796	3,626	7,021	251	4,072	810
Nebraska	7,085	126	1,690	3,393	58	1,818	318
Southern—total	107,274	6,567	30,314	39,761	2,142	28,490	5,502
North Carolina	12,969	405	3,158	5,133	309	3,964	565
South Carolina	6,368	180	1,861	2,359	108	1,860	319
Georgia	15,928	1,656	4,786	5,269	359	3,858	791
Florida	40,018	3,359	11,966	14,196	657	9,840	1,971
Mississippi	5,859	127	1,759	2,246	73	1,654	309
Alabama	9,367	254	2,911	3,633	227	2,342	652
Tennessee	10,703	463	2,582	4,475	212	2,971	588
Kentucky	6,062	123	1,291	2,450	197	2,001	307
Southwest—total	84,033	4,325	24,933	33,638	1,453	19,684	4,888
Louisiana	9,521	373	3,021	3,523	171	2,433	544
Oklahoma	12,735	424	3,218	5,835	206	3,052	763
Texas	50,272	3,258	15,555	19,431	925	11,103	2,922
New Mexico	5,569	140	1,434	2,490	98	1,407	340
Arkansas	5,936	130	1,705	2,359	53	1,689	319
Rocky Mountain—total	32,513	1,493	8,670	13,582	754	8,014	1,782
Colorado	14,768	1,138	4,288	5,560	527	3,255	883
Wyoming	1,992	50	476	913	18	535	121
Utah	4,466	150	1,088	2,067	85	1,076	220
Montana	4,395	90	1,122	2,065	39	1,079	232
North Dakota	3,671	28	939	1,558	21	1,125	185
South Dakota	3,221	37	757	1,419	64	944	141
Western—total	121,783	7,251	32,613	51,435	2,490	27,994	6,079
California	105,067	6,448	28,031	44,639	2,150	23,799	5,274
Arizona	12,464	435	3,419	5,152	269	3,189	570
Nevada	4,252	368	1,163	1,644	71	1,006	235
Northwest—total	34,947	1,571	9,283	15,154	575	8,364	2,034
Washington	19,819	1,293	5,757	7,970	383	4,416	1,191
Oregon	10,694	183	2,391	5,202	125	2,793	572
Idaho	4,434	95	1,135	1,982	67	1,155	271
Alaskan region—total	7,656	347	2,015	3,204	69	2,021	380
Pacific region—total	2,786	248	922	868	103	645	151
Outside U.S.—total	14,231	2,053	3,720	5,030	297	3,131	380

NOTE: Puerto Rico (1,773) and Virgin Island (383) are included in Outside U.S. total.

^{1/} Not included in total.^{2/} Includes Outside U.S.

Table 5.—Total Active Women Pilots and Flight Instructors by FAA Region and State: December 31, 1973

FAA Region and State	Total Pilots	Airline Transport	Commercial	Private	Other Pilot Categories	Student	Flight Instructor ^{1/}
Total	<u>2/34,356</u>	95	2,083	13,232	353	18,593	618
United States—total	<u>33,931</u>	94	<u>2,046</u>	<u>13,082</u>	<u>347</u>	<u>18,362</u>	<u>610</u>
New England—total	<u>1,492</u>	1	95	517	16	863	30
Maine	139	---	6	38	2	93	2
New Hampshire	131	---	12	45	---	74	5
Rhode Island	64	---	6	20	---	38	4
Massachusetts	638	---	36	235	7	360	8
Connecticut	425	1	28	148	6	242	7
Vermont	95	---	7	31	1	56	4
Eastern—total	<u>4,742</u>	10	272	<u>1,733</u>	79	<u>2,648</u>	73
New York	<u>1,538</u>	2	77	585	34	840	19
Pennsylvania	<u>1,055</u>	3	71	384	12	585	21
Virginia	568	1	30	200	3	334	8
Maryland	540	---	34	207	11	288	9
West Virginia	114	---	6	35	---	73	1
Delaware	68	---	4	29	2	33	---
New Jersey	806	4	45	276	17	464	15
District of Columbia ..	53	---	5	17	---	31	---
Great Lakes—total	<u>6,176</u>	20	364	<u>2,377</u>	63	<u>3,352</u>	123
Illinois	<u>1,499</u>	6	93	596	19	785	31
Indiana	778	---	49	321	2	406	14
Minnesota	745	2	29	293	7	414	6
Michigan	<u>1,160</u>	4	70	425	19	642	28
Ohio	<u>1,489</u>	7	95	540	13	834	37
Wisconsin	505	1	28	202	3	271	7
Central—total	<u>2,295</u>	5	125	<u>1,014</u>	16	<u>1,135</u>	38
Kansas	673	3	32	344	5	289	12
Iowa	480	---	23	206	3	248	8
Missouri	781	1	50	318	6	406	12
Nebraska	361	1	20	146	2	192	6
Southern—total	<u>4,460</u>	14	264	<u>1,471</u>	28	<u>2,683</u>	77
North Carolina	502	1	20	169	4	308	2
South Carolina	239	2	9	79	6	143	7
Georgia	528	---	25	166	4	333	2
Florida	<u>1,922</u>	8	125	623	10	<u>1,156</u>	40
Mississippi	225	1	16	55	2	151	2
Alabama	349	---	18	130	---	201	6
Tennessee	456	2	37	167	2	248	13
Kentucky	239	---	14	82	---	143	5
Southwest—total	<u>3,805</u>	12	219	<u>1,518</u>	18	<u>2,038</u>	68
Louisiana	395	1	27	139	1	227	6
Oklahoma	646	4	42	286	4	310	14
Texas	<u>2,213</u>	7	115	889	8	<u>1,194</u>	40
New Mexico	329	---	16	136	5	172	2
Arkansas	222	---	19	68	---	135	6
Rocky Mountain—total ...	<u>1,459</u>	7	90	<u>544</u>	15	<u>803</u>	28
Colorado	710	6	47	247	11	399	15
Wyoming	82	---	4	33	---	45	---
Utah	166	1	10	74	3	78	3
Montana	213	---	16	85	---	112	3
North Dakota	159	---	11	46	---	102	7
South Dakota	129	---	2	59	1	67	---
Western—total	<u>7,035</u>	18	470	<u>2,921</u>	93	<u>3,533</u>	125
California	<u>6,013</u>	15	397	<u>2,524</u>	80	<u>2,997</u>	110
Arizona	789	2	60	306	13	408	11
Nevada	233	1	13	91	---	128	4
Northwest—total	<u>1,769</u>	4	99	<u>704</u>	13	<u>949</u>	32
Washington	930	3	47	388	10	482	16
Oregon	599	---	34	225	1	339	7
Idaho	240	1	18	91	2	128	9
Alaska Region—total.....	<u>532</u>	2	35	<u>225</u>	---	<u>270</u>	9
Pacific Region—total ...	<u>166</u>	1	13	<u>58</u>	6	<u>88</u>	7
Outside U.S.—total	<u>425</u>	1	37	<u>150</u>	6	<u>231</u>	8

NOTE: Puerto Rico (47) and Virgin Island (28) are included in Outside U.S. total.

^{1/} Not included in total.^{2/} Includes Outside U.S.

Table 6.--Total Active Helicopter Pilots by Class of
Certificate: December 31, 1973

Class of certificate	Number of certificates held
Total	27,762
Private helicopter	277
Private autogiro, private airplane	17
Private helicopter, private airplane	539
Private helicopter, private airplane, private glider	27
Commercial airplane, private helicopter	81
Commercial airplane, private glider, private helicopter	2
Commercial airplane, commercial glider, private helicopter	5
Private gyroplane	5
Private airplane, commercial glider, commercial helicopter	4
Commercial helicopter	5,619
Private airplane, commercial helicopter	1,944
Commercial airplane, commercial helicopter	18,335
Private airplane, private glider, commercial helicopter	17
Commercial airplane, private glider, commercial helicopter	91
Commercial airplane, commercial glider, commercial helicopter	458
Commercial helicopter, private glider	8
Commercial helicopter, commercial glider	6
Commercial autogiro, commercial airplane	35
Commercial airplane, commercial autogiro, commercial glider	3
Commercial airplane, commercial autogiro, commercial helicopter	43
Commercial autogiro, commercial helicopter, private airplane	1
Airline transport helicopter	45
Airline transport airplane, airline transport helicopter	179
Other	21

Table 7.--Total Active Glider Pilots by Class of Certificate
December 31, 1973

Class of certificate	Number of certificates held
Total	13,395
Private glider	3,543
Private airplane, private glider	3,116
Private airplane, private glider, private helicopter	27
Private airplane, private glider, commercial helicopter	17
Commercial airplane, private glider	1,464
Commercial airplane, private glider, commercial helicopter	91
Commercial airplane, private glider, private helicopter	2
Commercial helicopter private glider	8
Private airplane, commercial glider	369
Private airplane, commercial glider, commercial helicopter	4
Commercial glider	745
Commercial airplane, commercial glider	3,520
Commercial airplane, commercial glider, private helicopter	5
Commercial airplane, commercial glider, commercial helicopter	458
Commercial helicopter, commercial glider	6
Commercial airplane, commercial autogiro, commercial glider and commercial helicopter.	13
Other	7

Table 8.--Total Active Helicopter and Glider
Pilots: December 31; 1968-73

Calendar year	Total helicopter pilots ^{1/}		Total glider pilots ^{2/}	
	Number	Percent change	Number	Percent change
1973	24,352	-22	10,723	-20
1972	31,141	+5	13,482	+11
1971	29,585	+14	12,189	+10
1970	25,922	+24	11,114	+12
1969	20,896	+19	9,907	+13
1968	17,607	+19	8,735	+18

^{1/}Includes pilots with ratings to fly helicopters only.

^{2/}Includes pilots with ratings to fly gliders only.

Table 9.--Total and Instrument Rated Pilots
December 31, 1968-73

Calendar Year	Total pilots ^{1/}	Instrument rated Pilots	
		Number	Percent of total
1973	532,702	185,696	35
1972	569,392	187,909	33
1971	554,581	179,251	32
1970	536,868	169,848	32
1969	516,508	155,879	30
1968	482,289	139,346	29

^{1/}Excludes student pilots.

Table 10.—Active Pilot Certificates Held, by Category and Age group of Holder: 1969, 1971, and 1973

Age group	Type of pilot certificate											
	Total active pilots			Student			Private airplane			Commercial airplane		
	1973	1971	1969	1973	1971	1969	1973	1971	1969	1973	1971	1969
Total	714,607	741,009	720,028	181,905	186,428	203,520	298,921	312,656	299,491	182,444	192,409	176,585
16-19	30,962	33,920	33,130	23,265	24,862	24,995	6,909	8,148	7,283	471	552	588
20-24	88,187	95,927	99,360	44,432	44,626	50,498	31,442	33,636	32,707	10,151	13,994	14,180
25-29	116,745	127,054	124,952	35,483	36,646	42,490	39,343	42,922	42,431	35,540	41,133	36,248
30-34	110,140	107,554	103,277	26,220	25,533	28,157	41,802	42,453	41,794	35,176	33,401	28,264
35-39	93,350	96,883	98,077	18,532	19,454	21,675	39,820	42,675	44,449	27,668	27,722	25,405
40-44	86,312	91,429	89,115	14,183	15,427	16,139	41,534	48,502	49,009	22,949	20,506	18,006
45-49	74,680	83,274	87,341	9,963	10,125	10,287	42,204	42,581	38,447	16,088	23,096	29,731
50-54	63,889	61,393	49,320	5,731	5,668	5,411	28,990	27,279	22,953	20,622	20,788	15,690
55-59	32,225	27,467	21,671	2,700	2,756	2,464	16,139	14,670	12,065	9,321	7,317	5,281
60 and over	18,099	16,108	13,785	1,376	1,331	1,404	10,738	9,790	8,333	4,458	3,900	3,192
Type of pilot certificate												
	Helicopter (only)			Glider (only)			Other pilot categories			Flight instructor 1/		
	1973	1971	1969	1973	1971	1969	1973	1971	1969	1973	1971	1969
	5,968	7,992	4,286	4,288	3,571	2,627	2,942	2,004	2,077	36,791	37,760	33,992
Total	5	20	27	292	327	225	19	11	12	127	151	161
16-19	1,065	2,793	1,299	765	549	329	227	173	183	3,149	3,646	3,877
20-24	3,083	3,244	1,457	576	396	242	312	246	352	7,755	9,387	8,330
25-29	409	418	396	419	340	318	421	352	354	5,213	4,768	3,976
30-34	212	280	225	428	404	378	481	317	328	3,900	3,745	3,345
35-39	111	128	109	459	481	370	421	276	263	3,111	3,530	4,038
40-44	41	62	40	421	377	259	356	177	149	3,182	3,109	2,525
45-49	17	19	14	267	211	146	194	73	53	1,182	1,501	1,264
50-54	7	20	18	192	132	78	114	38	39	1,116	890	749
55-59												
60 and over												

1/ Not included in total active pilots.

Table 10.—Active Pilot Certificates Held, by Category and Age Group of Holder: 1969, 1971, 1973—Continued

Age group	Type of pilot certificate														
	Total active pilots			Student			Private airplane			Commercial airplane		Airline transport			
	1973	1971	1969	1973	1971	1969	1973	1971	1969	1973	1971	1969	1973	1971	1969
	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Total	4	5	5	13	13	12	2	3	2	*	*	*	*	---	---
16-19	12	14	14	24	24	25	11	11	11	6	7	8	*	*	1
20-24	16	17	17	20	20	21	13	14	14	20	21	21	6	7	5
25-29	15	15	14	14	14	14	14	13	14	19	17	16	13	12	12
30-34	13	13	14	10	10	10	13	14	15	15	15	14	16	16	17
35-39	12	12	12	8	8	8	14	15	16	13	11	10	18	16	17
40-44	10	11	12	6	5	5	14	13	13	9	12	17	14	19	26
45-49	10	8	7	3	3	3	10	9	8	11	11	9	21	20	15
50-54	5	4	3	1	2	1	5	5	4	5	4	3	9	7	5
55-59	3	2	2	1	1	1	4	3	3	2	2	2	3	3	2
60 and over	Type of pilot certificate														
	Helicopter (only)			Glider (only)			Other pilot categories			Flight instructor 1/					
	1973	1971	1969	1973	1971	1969	1973	1971	1969	1973	1971	1969	1973	1971	1969
	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	*	*	1	7	9	9	1	1	1	1	*	*	*	*	*
16-19	18	35	30	18	15	12	8	7	9	9	9	10	10	11	*
20-24	52	41	35	13	11	9	11	12	17	17	21	25	25	25	25
25-29	17	13	16	11	10	11	13	17	17	17	20	19	19	17	17
30-34	7	5	9	10	10	12	14	18	17	17	14	13	13	12	12
35-39	3	3	5	10	14	14	16	16	16	16	11	10	10	10	10
40-44	2	2	3	11	11	14	14	14	12	12	8	9	9	12	12
45-49	1	1	1	10	11	10	12	9	7	7	8	8	7	7	7
50-54	*	*	*	6	6	6	7	4	4	2	5	4	4	4	4
55-59	*	*	*	4	3	3	4	2	2	2	3	2	2	2	2
60 and over															

* Less than 0.5 percent.

1/ Not included in total active pilots.

Thousands

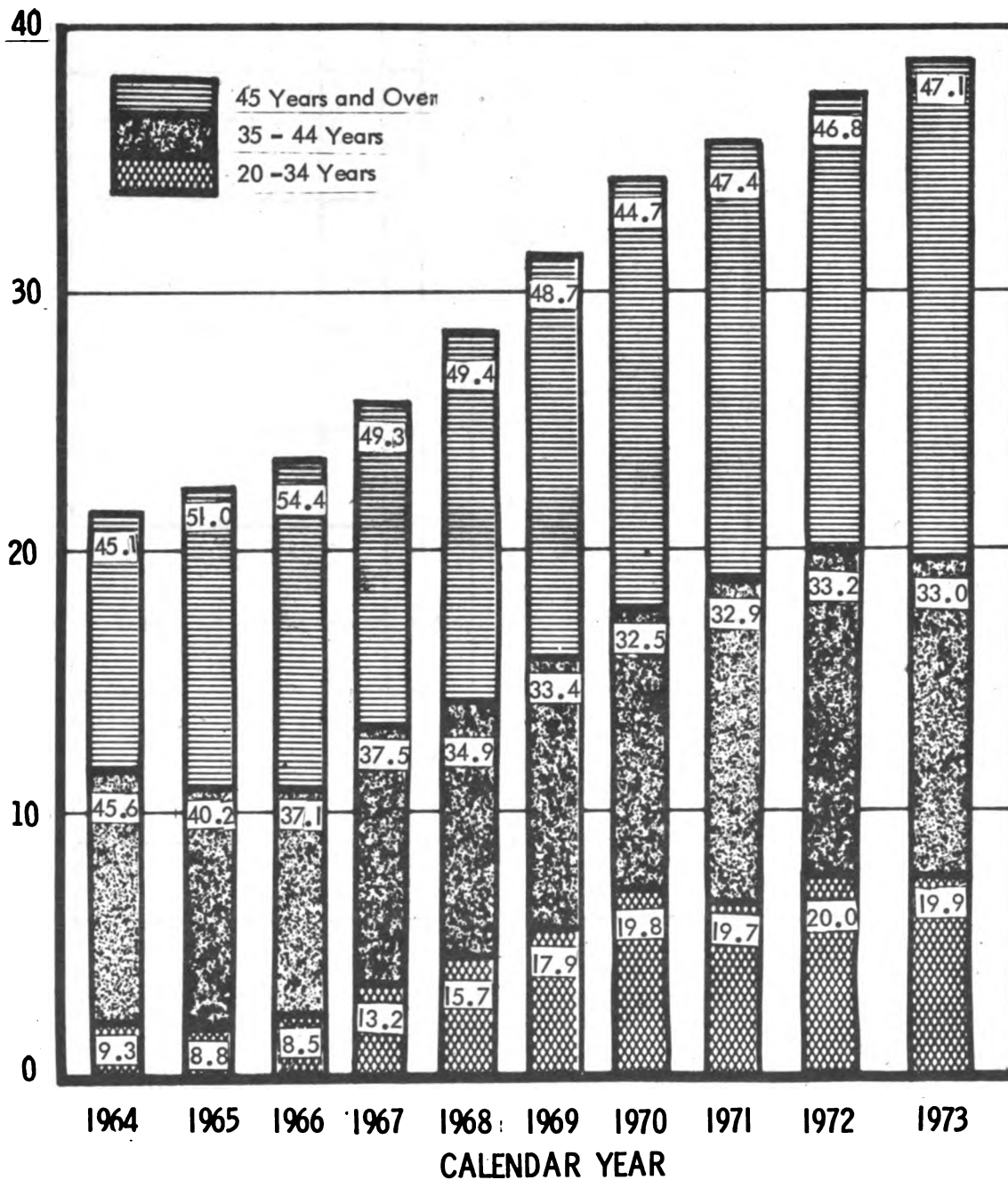


Figure 4. Active Airline Transport Pilots by Selected Age Groups:
December 31, 1963 - 72.

NOTE: Numbers appearing on the bars represent percent of total.

Table 11.--Airline Transport Certificates Held, by
Selected Age Groups: 1964-73

Year	Age group			
	Total	20-34 years	35-44 years	45 years and over
Number				
1964	21,572	2,003	9,845	9,724
1965	22,440	1,970	9,027	11,443
1966	23,917	2,043	8,873	13,001
1967	25,817	3,402	9,673	12,742
1968	28,607	4,481	9,990	14,136
1969	31,442	5,611	10,510	15,321
1970	34,430	6,814	11,183	16,433
1971	35,949	7,087	11,838	17,024
1972	37,714	7,536	12,532	17,646
1973	38,139	7,588	12,587	17,964
Percent distribution				
1964	100.0	9.3	45.6	45.1
1965	100.0	8.8	40.2	51.0
1966	100.0	8.5	37.1	54.4
1967	100.0	13.2	37.5	49.3
1968	100.0	15.7	34.9	49.4
1969	100.0	17.9	33.4	48.7
1970	100.0	19.8	32.5	44.7
1971	100.0	19.7	32.9	47.4
1972	100.0	20.0	33.2	46.8
1973	100.0	19.9	33.0	47.1

**Table 12.--Pilots and Copilots of the Certificated
Route Air Carriers--Employment and Payroll
1964-1973**

Calendar Year	Number Employed ^{1/}	Annual Payroll (\$000)	Average Annual Salary
1964	15,136	288,942	19,090
1965	16,881	339,381	20,104
1966	20,955	415,996	19,852
1967	23,246	502,478	21,616
1968	24,586	606,276	24,659
1969	26,291	700,273	26,635
1970	25,784	784,160	30,413
1971	26,193	825,520	31,517
1972	26,880	890,431	33,126
1973	27,189	947,857	34,862

^{1/} Includes pilots and copilots employed as of
December 31.

Source: Civil Aeronautics Board.

Table 13.—Selected Airman and Aircraft Data: December 31, 1973

FAA Region and state	Active pilots		Registered aircraft ^{1/}		Estimated 1973 population (000) ^{2/}
	Total	Per 10,000 population	Total	Per 10,000 population	
Total	714,607	34.1	170,800	8.1	209,851
United States--total.	<u>700,376</u>	<u>33.4</u>	<u>170,159</u>	<u>8.1</u>	<u>209,851</u>
New England--total	<u>31,160</u>	<u>25.6</u>	<u>6,132</u>	<u>5.0</u>	<u>12,150</u>
Maine	3,240	31.5	902	8.8	1,028
New Hampshire	3,098	39.2	754	9.5	791
Rhode Island	1,634	16.8	250	2.6	973
Massachusetts	12,554	21.6	2,497	4.3	5,818
Connecticut	9,123	29.7	1,390	4.5	3,076
Vermont	1,511	32.6	339	7.3	464
Eastern--total	<u>101,646</u>	<u>20.5</u>	<u>22,055</u>	<u>4.5</u>	<u>49,525</u>
New York	<u>30,686</u>	<u>16.8</u>	<u>6,528</u>	<u>3.6</u>	<u>18,265</u>
Pennsylvania	22,613	19.0	5,663	4.8	11,902
Virginia	14,880	30.9	2,361	4.9	4,811
Maryland	10,464	25.7	2,320	5.7	4,070
West Virginia	2,739	15.3	875	4.9	1,794
Delaware	1,743	30.3	464	8.1	576
New Jersey	17,755	24.1	3,637	4.9	7,361
District of Columbia	766	10.3	207	2.8	746
Great Lakes--total	<u>130,377</u>	<u>29.1</u>	<u>32,834</u>	<u>7.3</u>	<u>44,793</u>
Illinois	<u>32,091</u>	<u>28.6</u>	<u>7,070</u>	<u>6.3</u>	<u>11,236</u>
Indiana	15,776	29.7	4,087	7.7	5,316
Minnesota	16,742	43.0	4,229	10.9	3,897
Michigan	24,409	27.0	6,742	7.5	9,044
Ohio	29,724	27.7	7,364	6.9	10,731
Wisconsin	11,635	25.5	3,342	7.3	4,569
Central--total	<u>46,201</u>	<u>40.2</u>	<u>12,465</u>	<u>10.9</u>	<u>11,482</u>
Kansas	12,722	58.8	3,336	14.6	2,279
Iowa	10,628	36.6	3,102	10.7	2,904
Missouri	15,766	33.1	3,974	8.4	4,757
Nebraska	7,085	46.0	2,053	13.3	1,542
Southern--total	<u>107,274</u>	<u>31.8</u>	<u>3/24,402</u>	<u>7.2</u>	<u>33,751</u>
North Carolina	<u>12,969</u>	<u>24.6</u>	<u>3,364</u>	<u>6.4</u>	<u>5,273</u>
South Carolina	6,368	23.4	1,528	5.6	2,726
Georgia	15,928	33.3	3,727	7.8	4,786
Florida	40,018	52.1	7,826	10.2	7,678
Mississippi	5,859	25.9	1,796	7.9	2,281
Alabama	9,367	26.5	2,190	6.2	3,539
Tennessee	10,703	25.9	2,275	5.5	4,126
Kentucky	6,062	18.1	1,304	3.9	3,342
Southwest--total	<u>84,033</u>	<u>39.3</u>	<u>23,116</u>	<u>10.8</u>	<u>21,364</u>
Louisiana	9,521	25.3	2,698	7.2	3,764
Oklahoma	12,735	47.8	4,182	15.7	2,663
Texas	50,272	42.6	12,581	10.7	11,794
New Mexico	5,569	50.4	1,514	13.7	1,106
Arkansas	5,936	29.1	2,141	10.5	2,037
Rocky Mountain--total	<u>32,513</u>	<u>54.3</u>	<u>8,657</u>	<u>14.4</u>	<u>5,993</u>
Colorado	<u>14,768</u>	<u>60.6</u>	<u>2,906</u>	<u>11.9</u>	<u>2,437</u>
Wyoming	1,992	56.4	762	21.6	353
Utah	4,466	38.6	1,008	8.7	1,157
Montana	4,395	61.0	1,589	22.0	721
North Dakota	3,671	57.4	1,281	20.0	640
South Dakota	3,221	47.0	1,111	16.2	685
Western--total	<u>121,783</u>	<u>52.5</u>	<u>27,189</u>	<u>11.7</u>	<u>23,207</u>
California	<u>105,067</u>	<u>51.0</u>	<u>22,421</u>	<u>10.9</u>	<u>20,601</u>
Arizona	12,464	60.6	3,467	16.8	2,058
Nevada	4,252	77.6	1,301	23.7	548
Northwest--total	<u>34,947</u>	<u>54.4</u>	<u>9,379</u>	<u>14.6</u>	<u>6,424</u>
Washington	<u>19,819</u>	<u>57.8</u>	<u>4,570</u>	<u>13.3</u>	<u>3,429</u>
Oregon	10,694	48.1	3,276	14.6	2,225
Idaho	4,434	57.6	1,533	19.9	770
Alaskan Region--total	<u>7,656</u>	<u>232.0</u>	<u>3,540</u>	<u>107.3</u>	<u>330</u>
Pacific Region--total	<u>2,786</u>	<u>33.5</u>	<u>390</u>	<u>4.7</u>	<u>832</u>
Outside U.S.--total	<u>14,231</u>	---	<u>641</u>	---	---

^{1/} Registered aircraft count as of December 31, 1972.^{2/} U.S. Department of Commerce, Bureau of the Census.^{3/} Includes Puerto Rico (309) and Virgin Islands (83).

Table 14—Instrument Ratings Held: December 31, 1972 and 1973

Class of certificate	1973	1972	Percent change 1972-1973
Total--all groups	185,969	187,909	-1
Private pilots--total	18,738	17,803	+5
Private airplane (only)	17,410	16,699	+4
Private airplane, private glider	427	428	---
Private airplane, commercial glider	39	42	-7
Private airplane, private helicopter	91	93	-2
Private airplane, private glider, private helicopter	6	5	+20
Private airplane, commercial helicopter	750	524	+43
Private airplane, private autogiro	2	3	-33
Private airplane, private glider, commercial helicopter	9	7	+29
Private airplane, commercial glider, commercial helicopter	2	1	+100
Private airplane, other	2	1	+100
Commercial pilots--total	126,855	130,161	-3
Commercial airplane (only)	108,192	112,047	-3
Commercial airplane, private glider	991	961	+3
Commercial airplane, commercial glider	2,468	2,175	+13
Commercial airplane, private helicopter	46	42	+10
Commercial airplane, commercial helicopter	14,607	14,472	+1
Commercial airplane, private glider, commercial helicopter	76	62	+23
Commercial airplane, commercial glider, commercial helicopter	401	361	+11
Commercial airplane, commercial autogiro	21	14	+50
Commercial airplane, commercial helicopter, commercial autogiro	32	12	+167
Commercial airplane, commercial autogiro, commercial glider	2	2	---
Commercial airplane, commercial glider, private helicopter	5	2	+150
Commercial airplane, commercial autogiro, commercial helicopter, commercial glider	10	5	+100
Commercial airplane, other	4	6	-33
Airline transport pilots--total	38,139	37,714	+1
Airline transport airplane	37,960	37,541	+1
Airline transport airplane, airline transport helicopter	179	173	+3
Rotorcraft pilots--total	2,236	2,231	---
Commercial helicopter	2,217	1,962	+13
Airline transport helicopter	9	260	-97
Commercial helicopter, private glider	4	3	+33
Commercial helicopter, commercial glider	4	3	+33
Private gyroplane	---	2	---
Commercial gyroplane, commercial helicopter	1	1	---
Rotorcraft, other	1	---	---
Glider pilots--total	1	---	---
Private glider	1	---	---

Table 15.--Instrument Ratings Held, by Class of Certificate, by FAA Region: December 31, 1973

Class of certificate	FAA Region												
	Total	New England	Eastern	Great Lakes	Central	Southern	Southwest	Rocky Mountain	Western	Northwest	Alaskan	Pacific	Foreign
Total--all certificates ..	185,969	8,338	26,993	28,314	9,644	32,184	23,651	7,541	33,319	8,420	1,430	976	5,159
Private pilots--total	18,738	781	2,961	4,424	1,026	2,742	1,972	499	3,117	650	36	14	335
Private airplane (only)	17,410	715	2,762	4,258	1,128	2,448	1,796	447	2,921	575	28	10	322
Private airplane, private glider	427	24	88	60	21	67	35	9	104	14	1	1	3
Private airplane, commercial glider ..	39	2	10	6	---	5	7	3	4	2	---	---	---
Private airplane, private helicopter ..	91	4	10	16	5	10	10	4	24	6	---	---	2
Private airplane, private glider, private helicopter	13	---	4	---	---	1	1	---	---	---	7	---	---
Private airplane, commercial helicopter	743	35	84	82	52	211	122	35	61	50	---	3	8
Private airplane, private autogiro ..	2	---	1	---	---	---	---	---	1	---	---	---	---
Private airplane, private glider, commercial helicopter	9	1	2	---	---	---	1	1	1	3	---	---	---
Private airplane, commercial glider, commercial helicopter	2	---	---	---	---	---	1	---	---	---	---	---	---
Private airplane, other	2	---	---	2	---	---	---	---	---	---	---	---	---
Commercial pilots--total	126,855	5,300	18,042	18,726	6,770	22,284	17,018	5,459	22,726	6,068	1,026	700	2,736
Commercial airplane (only)	108,192	4,507	15,208	16,619	5,864	18,374	14,440	4,660	19,552	5,149	865	579	2,375
Commercial airplane, private glider ..	991	42	194	142	34	137	91	49	236	41	6	8	11
Commercial airplane, commercial glider	2,468	118	391	373	109	386	288	130	529	94	12	19	19
Commercial airplane, private helicopter	46	2	6	7	2	8	5	---	12	2	---	---	2
Commercial airplane, commercial helicopter	14,607	604	2,159	1,518	734	3,296	2,131	586	2,280	747	139	92	321
Commercial airplane, private glider, commercial helicopter	76	5	17	10	4	9	8	3	13	3	1	---	3
Commercial airplane, commercial glider	401	17	61	45	19	65	49	26	84	25	3	2	5
Commercial airplane, commercial autogiro	21	3	2	5	2	1	1	1	4	2	---	---	---
Commercial airplane, commercial helicopter	32	---	2	4	2	4	5	3	8	4	---	---	---
Commercial airplane, commercial autogiro	2	---	---	---	---	2	---	---	---	---	---	---	---
Commercial airplane, commercial glider	2	---	---	---	---	1	---	---	---	---	---	---	---
Commercial airplane, commercial glider, private helicopter	5	---	---	1	---	1	---	---	2	1	---	---	---
Commercial airplane, commercial autogiro, commercial helicopter	10	1	---	2	---	1	---	1	5	---	---	---	---
Commercial glider	4	1	2	---	---	---	---	---	1	---	---	---	---
Commercial airplane, other	39,139	2,165	5,664	4,924	1,531	6,567	4,325	1,493	7,251	1,571	347	248	2,053
Airline transport pilots--total ..	37,960	2,158	5,640	4,907	1,521	6,542	4,302	1,490	7,205	1,560	344	247	2,044
Airline transport airplane	179	7	24	17	10	25	23	3	46	11	3	1	9
Airline transport airplane, private transport helicopter	2,236	92	325	240	137	591	335	90	225	131	21	14	35
Motorcraft--total	2,217	91	323	237	137	584	334	90	221	130	21	14	35
Commercial helicopter	9	---	---	1	---	3	1	---	3	1	---	---	---
Airline transport helicopter	10	1	2	2	---	4	---	---	1	---	---	---	---
Other	1	---	---	---	---	---	---	---	---	---	---	---	---
Glider--total	1	---	1	---	---	---	---	---	---	---	---	---	---
Private glider	1	---	1	---	---	---	---	---	---	---	---	---	---

Table 16

ACTIVE PILOTS BY TYPE OF CERTIFICATE

As of January 1	Total	Students	Private	Commercial	Airline Transport	Helicopter	Glider	Instrument Rated ^{1/}
1969	691,695*	209,406	283,865	164,458	28,607	3,166	2,193	139,346
1970	720,028	203,520	301,568	176,585	31,442	4,286	2,627	155,879
1971	732,729	195,861	305,826	186,821	34,430	6,677	3,114	169,848
1972	741,009	186,428	314,660	192,409	35,949	7,992	3,571	179,261
1973	750,869	181,477	323,383	196,228	37,714	7,987	4,080	187,909
1974*	783,600	183,000	342,000	207,000	38,900	8,300	4,400	207,000
1975*	817,700	186,000	361,000	218,000	39,100	8,600	5,000	222,000
1976*	853,000	190,000	380,000	228,000	40,400	9,000	5,600	239,000
1977*	888,400	194,000	398,000	239,000	41,700	9,400	6,300	257,000
1978*	923,900	198,000	417,000	249,000	43,000	9,800	7,100	275,000
1979*	959,400	202,000	435,000	260,000	44,400	10,000	8,000	294,000
1980*	995,700	206,000	454,000	271,000	45,600	10,200	8,900	313,000
1981*	1,032,300	210,000	473,000	281,000	47,900	10,400	10,000	332,000
1982*	1,068,800	214,000	491,000	292,000	50,000	10,600	11,200	352,000
1983*	1,106,700	218,000	510,000	303,000	52,400	10,800	12,500	374,000
1984*	1,140,800	222,000	528,000	312,000	53,800	11,000	14,000	397,000
1985*	1,171,700	226,000	538,000	327,000	54,500	11,200	15,000	417,000

* Forecast.

^{1/} Not included in total.

II. NONPILOT CERTIFICATES HELD

The count of nonpilot airmen dropped during 1973, with a loss of 3 percent. The 1973 year-end count totaled 304,747, compared with 315,348 in 1972.

The data for dispatchers, mechanics, parachute riggers, and ground instructors represent the number of certificates issued to date and remain valid without periodic medicals. The data for control tower operators, flight engineers and flight navigators, represent the number of active certificates held, since validation of these ratings requires periodic medicals.

The 193,337 mechanic certificates held comprised 63 percent of all nonpilot certificates. Mechanic ratings decreased 4 percent below the previous year's count of 201,700.

Ground instructors decreased 3 percent from 48,450 in 1972 to 46,827. Second in proportionate representation to mechanics, ground instructors represented 15 percent of the 1973 nonpilot count. The number of control tower operators decreased from 23,353 in 1972 to 23,250 in 1973.

A 11-percent decrease lowered the flight navigators' count from 2,957 to 2,636. The future trend in the number of flight navigators may be downward, as a result of the decreasing demand for flight navigators.

Following a steady increase in parachute riggers in the 1968-1972 period, a 5-percent decrease occurred in 1973, from 7,287, to 6,941.

Tables 1, 2, 17, 18, and 19, give more detailed data pertaining to nonpilot airmen.

Table 17.—Total Nonpilot Airmen Certificates Issued to Date by FAA Region and State
December 31, 1973 1/

FAA Region and State	Total nonpilot airmen	Mechanic	Parachute rigger	Ground instructor	Dispatcher	Control tower operator	Flight navigator	Flight engineer
Total	304,747	193,337	6,941	46,827	5,527	23,250	2,636	26,229
United States—total.	<u>290,757</u>	<u>184,051</u>	<u>6,639</u>	<u>45,306</u>	<u>4,328</u>	<u>22,547</u>	<u>2,401</u>	<u>25,485</u>
New England—total	<u>15,953</u>	<u>10,440</u>	<u>314</u>	<u>2,251</u>	<u>130</u>	<u>998</u>	<u>247</u>	<u>1,573</u>
Maine	964	553	29	186	11	123	8	54
New Hampshire	1,297	544	21	195	13	195	19	310
Rhode Island	911	576	39	167	4	79	6	40
Massachusetts	8,053	6,042	147	989	64	386	35	390
Connecticut	4,319	2,502	69	608	33	173	174	760
Vermont	409	223	9	106	5	42	5	19
Eastern—total	<u>54,736</u>	<u>37,361</u>	<u>1,132</u>	<u>7,372</u>	<u>1,340</u>	<u>3,245</u>	<u>553</u>	<u>3,733</u>
New York	23,897	17,279	287	2,863	1,042	1,114	212	1,100
Pennsylvania	12,103	9,148	230	1,651	81	572	88	333
Virginia	4,866	2,272	292	788	105	732	45	632
Maryland	2,772	1,551	97	547	19	261	23	274
West Virginia	439	208	22	80	1	112	2	14
Delaware	818	560	18	108	5	78	8	41
New Jersey	9,759	6,315	185	1,310	84	358	175	1,332
District of Columbia	82	28	1	25	3	18	—	7
Great Lakes—total	<u>38,067</u>	<u>23,237</u>	<u>914</u>	<u>7,186</u>	<u>388</u>	<u>2,911</u>	<u>77</u>	<u>3,354</u>
Illinois	12,269	7,322	215	2,146	203	594	32	1,757
Indiana	3,808	2,350	149	738	25	429	5	112
Minnesota	6,634	4,037	109	1,008	84	321	12	1,063
Michigan	5,938	3,732	153	1,302	35	574	13	129
Ohio	7,555	4,803	229	1,583	37	759	11	133
Wisconsin	1,863	993	59	409	4	234	4	160
Central—total	<u>16,221</u>	<u>10,780</u>	<u>334</u>	<u>3,104</u>	<u>132</u>	<u>1,147</u>	<u>19</u>	<u>705</u>
Kansas	4,693	3,117	80	849	32	373	2	240
Iowa	2,217	1,383	64	550	9	174	—	37
Missouri	7,824	5,421	137	1,306	89	454	12	405
Nebraska	1,487	859	53	399	2	146	5	23
Southern—total	<u>47,114</u>	<u>27,629</u>	<u>1,288</u>	<u>7,146</u>	<u>882</u>	<u>4,989</u>	<u>342</u>	<u>4,838</u>
North Carolina	3,080	1,651	267	585	37	446	13	81
South Carolina	1,554	718	56	347	2	361	3	67
Georgia	9,338	5,206	234	1,061	165	854	18	1,800
Florida	22,684	14,103	341	3,182	543	1,628	284	2,603
Mississippi	1,396	686	27	331	4	297	5	46
Alabama	4,965	3,188	88	784	103	748	2	52
Tennessee	2,740	1,411	129	589	25	411	11	164
Kentucky	1,357	666	146	267	3	244	6	25
Southwest—total	<u>35,493</u>	<u>22,119</u>	<u>705</u>	<u>6,145</u>	<u>256</u>	<u>3,414</u>	<u>93</u>	<u>2,761</u>
Louisiana	2,846	1,632	81	525	18	368	5	217
Oklahoma	8,780	6,514	132	1,338	19	598	17	162
Texas	21,062	12,479	403	3,568	204	2,022	67	2,319
New Mexico	1,417	788	46	334	10	212	2	25
Arkansas	1,388	706	43	380	5	214	2	38
Rocky Mountain—total	<u>10,234</u>	<u>5,534</u>	<u>406</u>	<u>2,194</u>	<u>129</u>	<u>883</u>	<u>50</u>	<u>1,038</u>
Colorado	5,607	2,924	111	1,163	113	344	34	918
Wyoming	347	217	14	74	1	26	1	14
Utah	1,348	782	56	264	10	179	8	49
Montana	1,425	754	183	334	2	118	6	28
North Dakota	740	419	21	169	1	117	—	13
South Dakota	767	438	21	190	2	99	1	16
Western—total	<u>58,946</u>	<u>38,655</u>	<u>1,090</u>	<u>7,881</u>	<u>817</u>	<u>3,594</u>	<u>842</u>	<u>6,067</u>
California	53,565	35,288	940	6,914	785	3,053	757	5,828
Arizona	4,148	2,782	124	712	20	370	22	118
Nevada	1,233	585	26	255	12	171	63	121
Northwest—total	<u>9,340</u>	<u>5,056</u>	<u>361</u>	<u>1,494</u>	<u>67</u>	<u>943</u>	<u>143</u>	<u>1,276</u>
Washington	5,811	2,906	139	815	51	621	103	1,176
Oregon	2,395	1,470	139	452	13	205	38	78
Idaho	1,134	680	83	227	3	117	2	22
Alaskan region—total	<u>2,311</u>	<u>1,458</u>	<u>64</u>	<u>373</u>	<u>95</u>	<u>224</u>	<u>15</u>	<u>82</u>
Pacific region—total	<u>2,342</u>	<u>1,782</u>	<u>31</u>	<u>160</u>	<u>92</u>	<u>199</u>	<u>20</u>	<u>58</u>
Outside U.S.—total	<u>13,990</u>	<u>9,286</u>	<u>302</u>	<u>1,521</u>	<u>1,199</u>	<u>703</u>	<u>235</u>	<u>744</u>

Note: Puerto Rico (850) and Virgin Island (85) are included in Outside U.S. total.

1/ Data for control tower operators, flight engineers, and flight navigators represent total active ratings held. Data for dispatchers, mechanics, parachute riggers, and ground instructors, represent total ratings issued to date. These ratings retain their validity.

Table 18.—Women with Monopilot Certificates Issued to date, by FAA Region and State:
December 31, 1973 ^{1/}

FAA region and state	Total	Mechanic	Parachute rigger	Ground instructor	Dispatcher	Control tower operator
Total	<u>2/3,074</u>	<u>284</u>	<u>336</u>	<u>1,960</u>	<u>39</u>	<u>453</u>
United States—total.	<u>2/2,979</u>	<u>271</u>	<u>326</u>	<u>1,903</u>	<u>37</u>	<u>440</u>
New England—total	<u>146</u>	<u>15</u>	<u>15</u>	<u>90</u>	<u>—</u>	<u>26</u>
Maine	14	1	1	7	—	5
New Hampshire	8	—	—	7	—	1
Rhode Island	15	—	6	6	—	3
Massachusetts	64	3	5	44	—	12
Connecticut	38	11	3	20	—	4
Vermont	7	—	—	6	—	1
Eastern—total	<u>435</u>	<u>32</u>	<u>42</u>	<u>276</u>	<u>13</u>	<u>71</u>
New York	<u>2/168</u>	<u>13</u>	<u>6</u>	<u>113</u>	<u>13</u>	<u>27</u>
Pennsylvania	89	6	6	61	—	16
Virginia	62	1	26	23	—	12
Maryland	30	2	1	21	—	6
West Virginia	1	—	—	—	—	1
Delaware	11	3	1	4	—	3
New Jersey	73	7	2	53	—	11
District of Columbia ..	1	—	—	1	—	—
Great Lakes—total	<u>396</u>	<u>33</u>	<u>35</u>	<u>289</u>	<u>1</u>	<u>38</u>
Illinois	<u>121</u>	<u>9</u>	<u>7</u>	<u>100</u>	<u>—</u>	<u>5</u>
Indiana	52	3	18	27	—	4
Minnesota	24	2	1	17	—	4
Michigan	76	9	2	56	—	9
Ohio	<u>109</u>	<u>8</u>	<u>7</u>	<u>80</u>	<u>—</u>	<u>14</u>
Wisconsin	14	2	—	9	1	2
Central—total	<u>185</u>	<u>17</u>	<u>14</u>	<u>123</u>	<u>—</u>	<u>31</u>
Kansas	60	13	4	34	—	9
Iowa	37	2	1	28	—	6
Missouri	64	2	6	48	—	8
Nebraska	24	—	3	13	—	8
Southern—total	<u>623</u>	<u>45</u>	<u>103</u>	<u>391</u>	<u>6</u>	<u>79</u>
North Carolina	64	—	29	32	—	3
South Carolina	21	1	—	17	—	3
Georgia	51	2	8	34	—	7
Florida	<u>2/252</u>	<u>36</u>	<u>14</u>	<u>164</u>	<u>5</u>	<u>32</u>
Mississippi	26	—	2	20	—	4
Alabama	117	2	5	86	1	23
Tennessee	64	1	36	23	—	4
Kentucky	30	3	9	15	—	3
Southwest—total	<u>410</u>	<u>30</u>	<u>49</u>	<u>278</u>	<u>3</u>	<u>50</u>
Louisiana	27	—	2	21	—	4
Oklahoma	92	12	8	63	1	8
Texas	<u>258</u>	<u>17</u>	<u>37</u>	<u>168</u>	<u>2</u>	<u>34</u>
New Mexico	19	—	2	17	—	—
Arkansas	14	1	—	9	—	4
Rocky Mountain—total	<u>127</u>	<u>5</u>	<u>12</u>	<u>94</u>	<u>2</u>	<u>14</u>
Colorado	62	2	3	50	1	6
Wyoming	3	1	1	1	—	—
Utah	16	1	5	9	—	1
Montana	14	—	3	10	—	1
North Dakota	12	1	—	6	1	4
South Dakota	20	—	—	18	—	2
Western—total	<u>519</u>	<u>82</u>	<u>43</u>	<u>287</u>	<u>6</u>	<u>101</u>
California	<u>465</u>	<u>78</u>	<u>37</u>	<u>249</u>	<u>6</u>	<u>95</u>
Arizona	42	3	3	31	—	5
Nevada	12	1	3	7	—	1
Northwest—total	<u>85</u>	<u>8</u>	<u>4</u>	<u>45</u>	<u>2</u>	<u>26</u>
Washington	<u>35</u>	<u>7</u>	<u>—</u>	<u>16</u>	<u>1</u>	<u>11</u>
Oregon	31	—	4	17	1	9
Idaho	19	1	—	12	—	6
Alaska region—total	<u>35</u>	<u>2</u>	<u>9</u>	<u>19</u>	<u>2</u>	<u>3</u>
Pacific region—total	<u>16</u>	<u>2</u>	<u>—</u>	<u>11</u>	<u>2</u>	<u>1</u>
Outside of U.S.—total ...	<u>95</u>	<u>13</u>	<u>10</u>	<u>57</u>	<u>2</u>	<u>13</u>

NOTE: Puerto Rico (3) and Virgin Island (1) are included in Outside of U.S. total.

^{1/} Data for control tower operators, flight engineers, and flight navigators represent total active ratings held. Data for dispatchers, mechanics, parachute riggers, and ground instructors, represent total ratings issued to date. These ratings retain their validity.

^{2/} Total includes two (2) flight engineers, one in Florida and one in New York.

There were no women with current certificates for flight navigator.

Table 19.--Active Nonpilot Certificates Held, by Category and Age Group of Holder: 1969, 1971, and 1973

Age group	Type of Certificate											
	Total nonpilot			Mechanic			Parachute rigger			Ground instructor		
	1973	1971	1969	1973	1971	1969	1973	1971	1969	1973	1971	1969
Total	<u>1/304,747</u>	307,057	269,775	<u>1/193,337</u>	193,295	170,716	6,941	6,839	6,070	<u>1/46,827</u>	46,145	41,234
16-19	350	478	492	255	320	353	6	10	9	48	53	75
20-24	13,101	18,354	14,283	7,531	9,927	8,291	444	557	452	1,403	1,598	1,695
25-29	35,000	35,207	28,987	21,635	21,143	16,468	1,113	1,021	907	4,674	4,858	3,734
30-34	40,402	38,304	33,880	21,618	19,488	17,070	1,164	1,134	1,166	5,631	4,136	2,801
35-39	37,846	38,476	35,589	20,064	22,005	21,765	1,279	1,199	1,000	3,661	2,930	2,479
40-44	36,901	35,330	33,069	24,015	23,971	23,229	968	771	657	3,211	3,382	3,870
45-49	34,778	43,440	48,291	25,154	30,636	33,196	619	693	690	4,713	6,727	8,412
50-54	45,956	44,087	33,845	32,277	29,940	22,742	520	530	435	8,267	7,160	7,160
55-59	29,979	25,000	19,228	20,486	16,783	12,803	345	379	327	6,728	6,027	4,906
60 and over	30,425	28,381	22,111	20,298	19,082	14,799	483	545	427	8,486	7,798	6,102
Control tower operator												
Flight navigator												
Flight engineer												
Total	5,527	5,480	5,026	23,250	26,450	19,851	2,636	3,052	3,011	26,229	25,796	23,867
16-19	1	---	---	40	95	55	---	---	---	---	---	---
20-24	20	64	60	3,602	6,135	3,446	1	4	6	100	69	333
25-29	300	425	356	5,349	4,858	3,014	18	77	244	1,911	2,825	4,264
30-34	603	546	518	3,333	3,959	3,879	318	570	684	7,735	8,471	7,762
35-39	618	652	627	4,208	4,629	4,100	641	618	497	7,375	6,443	5,121
40-44	652	654	653	3,383	2,966	1,852	426	366	354	4,246	3,220	2,454
45-49	700	793	915	1,186	1,575	1,963	342	510	612	2,064	2,506	2,503
50-54	952	1,015	881	1,435	1,626	1,082	527	664	483	1,978	1,676	1,062
55-59	857	660	510	577	474	313	307	202	100	679	475	269
60 and over	824	671	506	137	133	147	56	41	31	141	111	99

1/ Includes nine (9) nonpilot certificates for the age group 14-15, four (4) in mechanic, and five (5) in ground instructor.

Table 19. Active Nonpilot Certificates Held, by Category and Age Group of Holder: 1969, 1971, and 1973

Age group	Type of Certificate											
	Total nonpilot			Mechanic			Parachute rigger			Ground instructor		
	1973	1971	1969	1973	1971	1969	1973	1971	1969	1973	1971	1969
Total	100	100	100	100	100	100	100	100	100	100	100	100
16-19	4	6	5	*	*	*	*	*	*	*	*	*
20-24	12	12	11	11	5	10	16	15	7	3	4	4
25-29	13	13	13	11	10	10	17	17	15	10	10	9
30-34	12	13	13	10	11	13	18	17	19	12	9	7
35-39	12	11	12	12	12	14	14	11	11	7	6	6
40-44	11	14	18	13	16	19	9	10	11	10	15	9
45-49	15	14	13	17	16	13	8	8	7	17	19	20
50-54	10	8	7	11	9	7	5	5	6	14	13	18
55-59	11	9	8	11	10	9	7	8	7	18	17	12
60 and over												15
Type of Certificate												
Total	Dispatcher			Control tower operator			Flight navigator			Flight engineer		
	1973	1971	1969	1973	1971	1969	1973	1971	1969	1973	1971	1969
	100	100	100	100	100	100	100	100	100	100	100	100
16-19	*	*	1	*	*	*	*	*	*	*	*	1
20-24	5	8	7	16	23	17	1	2	8	7	11	18
25-29	11	10	10	23	18	15	1	19	23	29	33	33
30-34	11	12	13	14	15	20	12	20	28	25	25	22
35-39	12	12	13	18	18	21	24	20	17	16	12	10
40-44	13	14	18	15	11	9	16	12	12	9	10	11
45-49	17	19	18	5	6	10	13	17	20	8	7	4
50-54	16	12	10	6	6	5	20	22	16	3	2	1
55-59	15	12	10	2	2	2	12	7	3	*	2	*
60 and over				1	1	1	2	1	1	*	---	*

*Less than 0.5 percent.

Table 20.—FAA Designated Mechanic and Parachute Rigger Examiners by FAA Region and State: 1973

FAA region and state	Mechanic Examiner			Parachute Rigger Examiner			
	Total	Airframe	Powerplant	Total	Back	Chest	Seat
Total	504	474	476	53	53	53	1/57
United States—total ..	473	443	445	53	53	53	1/57
New England—total	17	12	13	2	2	2	1
Maine	1	1	1	—	—	—	—
New Hampshire	1	1	—	—	—	—	—
Rhode Island	—	—	—	—	—	—	—
Massachusetts	8	4	6	2	2	2	1
Connecticut	6	5	5	—	—	—	—
Vermont	1	1	1	—	—	—	—
Eastern—total	60	53	52	8	8	8	2/9
New York	30	25	24	2	2	2	2/3
Pennsylvania	13	13	13	1	1	1	1
Virginia	3	3	3	1	1	1	1
Maryland	3	3	3	2	2	2	2
West Virginia	1	1	1	—	—	—	—
Delaware	1	1	1	—	—	—	—
New Jersey	9	7	7	2	2	2	2
District of Columbia ..	—	—	—	—	—	—	—
Great Lakes—total	102	100	101	5	5	5	2/6
Illinois	36	35	35	1	1	1	2/2
Indiana	13	13	13	2	2	2	2
Minnesota	14	14	14	—	—	—	—
Michigan	16	15	16	1	1	1	1
Ohio	14	14	14	1	1	1	1
Wisconsin	9	9	9	—	—	—	—
Central—total	26	26	26	3	3	3	3
Kansas	3	3	3	1	1	1	1
Iowa	5	5	5	—	—	—	—
Missouri	14	14	14	1	1	1	1
Nebraska	4	4	4	1	1	1	1
Southern—total	69	64	63	7	7	7	7
North Carolina	5	5	5	1	1	1	1
South Carolina	4	4	4	—	—	—	—
Georgia	13	12	12	—	—	—	—
Florida	29	25	25	2	2	2	2
Mississippi	4	4	3	—	—	—	—
Alabama	7	7	7	—	—	—	—
Tennessee	5	5	5	2	2	2	2
Kentucky	2	2	2	2	2	2	2
Southwest—total	57	50	51	6	6	6	6
Louisiana	3	3	3	—	—	—	—
Oklahoma	18	13	14	2	2	2	2
Texas	31	29	29	2	2	2	2
New Mexico	3	3	3	—	—	—	—
Arkansas	2	2	2	2	2	2	2
Rocky Mountain—total	18	16	17	7	7	7	2/7
Colorado	5	4	5	2	2	2	2
Wyoming	3	3	3	—	—	—	—
Utah	2	2	2	1	1	1	2/2
Montana	3	2	2	3	3	3	2
North Dakota	2	2	2	—	—	—	—
South Dakota	3	3	3	1	1	1	1
Western—total	81	80	81	6	6	6	3/8
California	65	64	65	5	5	5	3/7
Arizona	12	12	12	1	1	1	1
Nevada	4	4	4	—	—	—	—
Northwest—total	35	34	33	5	5	5	5
Washington	25	24	23	2	2	2	2
Oregon	6	6	6	2	2	2	2
Idaho	4	4	4	1	1	1	1
Alaskan region—total	5	5	5	3	3	3	2/4
Pacific region—total	3	3	3	1	1	1	1
Outside U.S.—total	31	31	31	—	—	—	—

1/ Includes 6 Examiners with Lap Ratings.

2/ Includes 1 Examiners with Lap Ratings.

3/ Includes 2 Examiners with Lap Ratings.

III. AIRMEN CERTIFICATES ISSUED

Original ratings issued to pilot and nonpilot airmen in 1973 totaled 223,162 -- 207,305 pilot ratings, and 15,857 nonpilot ratings, accounting for a 7-percent increase over the previous year.

Student certificates rose 8 percent in 1973, from 121,543 to 131,384, following a 5-percent decrease in 1972. Private ratings issued increased from 50,523 in 1972 to 53,140 in 1973 or 5 percent. Commercial ratings also increased 5 percent to 16,769 in 1973.

The 3,224 airline transport ratings issued accounted for a dramatic increase of 24 percent over the previous year's count of 2,604, following outstanding gains in 1969 and 1970 of 62 percent and 83 percent, respectively, "helicopter only" ratings issued made a complete reversal, when certificates issued dropped 19 percent, 30 percent and 29 percent in 1971, 1972 and 1973, respectively.

During 1973, 892 "glider only" certificates were issued, compared with 713 in the previous year, for a 25-percent gain.

Additional data pertaining to pilot ratings issued may be found in tables 22, 23, and 24.

The 1973 count of original nonpilot issuances increased to 15,857, 17 percent above the previous year's count of 13,710. Mechanic ratings issued accounted for 53 percent of all nonpilot issuances, with their 1973 activity recording 3-percent increase over 1972.

From 457 in 1972, certificates issued for parachute rigger ratings decreased 9 percent to 418; the number of ground instructor ratings increased 13 percent to 2,506; and flight navigator ratings increased 100 percent to 70 for the same period.

Decreases in certificates issued to dispatchers, control tower operators, and a dramatic increase for flight engineers occurred in 1973 compared with the previous year. Dispatchers dropped 11 percent, control operators 7 percent, while flight engineers rose 258 percent.

Total additional ratings issued in 1973 rose 13 percent, from 42,459 in 1972 to 48,170. The 39,656 additional pilot ratings represented a 16-percent increase over the 34,295 certificates issued during 1972. Nonpilot airmen received 8,514 additional ratings, up 4 percent from 8,164 on record for 1972. IFR additional ratings issued totaled 19,649, up 14 percent from 1972.

Table 21.--Airman Certificate Issuances: Calendar Years 1968-73

Category of certificate	1968		1969		1970		1971		1972		1973	
	Original issuances	Additional ratings	Original issuances	Additional ratings	Original issuances	Additional ratings	Original issuances	Additional ratings	Original issuances	Additional ratings	Original issuances	Additional ratings
Pilot-total	228,374	34,751	215,259	38,569	209,714	38,286	200,475	33,222	193,896	34,295	207,305	39,656
Student	149,444	---	132,926	---	126,871	---	128,004	---	121,543	---	131,384	---
Private	54,232	7,926	54,597	8,096	53,026	8,374	49,579	7,775	50,523	8,371	53,140	9,797
Commercial	20,157	21,795	21,399	25,706	21,130	25,746	16,356	22,695	16,043	22,236	16,769	24,823
Airline transport	2,601	4,911	3,469	4,616	3,745	3,977	2,439	2,567	2,604	3,410	3,224	4,391
Helicopter (only)	1,433	94	2,326	148	4,250	187	3,448	172	2,421	263	1,719	507
Glider (only) ...	476	17	521	---	652	---	611	10	713	14	892	131
Other pilot	31	8	21	3	40	2	38	3	49	1	177	7
Non-pilot--total ...	19,425	9,889	21,608	10,279	20,002	8,761	15,193	7,167	13,710	8,164	15,857	8,514
Mechanic	10,977	4,690	12,816	5,476	13,118	5,038	8,400	3,323	8,138	3,215	8,355	3,329
Parachute rigger.	349	36	387	46	345	45	430	48	457	60	418	63
Ground instructor	3,546	1,360	3,604	1,294	2,607	964	1,888	665	2,223	670	2,506	732
Dispatcher	268	1	276	---	239	---	182	---	151	---	135	---
Control tower operator	1,881	2,584	2,106	2,717	1,952	2,426	3,557	2,903	2,004	3,966	1,863	4,227
Flight navigator.	116	---	166	---	42	---	33	---	35	---	70	---
Flight engineer .	2,288	1,218	2,253	746	1,699	288	703	228	702	253	2,510	163
Flight instructor certificates	5,971	3,078	7,380	3,539	7,544	3,616	5,533	3,011	5,292	2,809	6,199	3,102
Instrument ratings*.	---	17,972	---	20,628	---	20,204	---	17,207	---	17,311	---	19,649

*Special ratings shown on pilot certificates represented above; not to be added to total.

NOTE: Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot--aircraft category, class, and type ratings and instrument rating.

Helicopter pilot--Instrument and type ratings.

Flight instructor--ratings for each aircraft category in which the holder is qualified to instruct and for instrument flying instruction.

Mechanic--airframe and powerplant ratings.

Parachute rigger--senior or master rigger ratings.

Ground instructor--ratings for each subject in which the holder is qualified to give instruction.

Air traffic control tower operator--junior/senior ratings for airports where holder may control air traffic.

Table 22.--Airman Certificates Issued by Class of Conductor: Calendar Year 1973

Category of certificate	Total ratings issued	Original ratings				Additional ratings			
		Total	Examiner	Inspector	No test	Total	Examiner	Inspector	No test
Total	271,332	223,162	69,019	139,975	14,168	48,170	34,860	7,575	5,735
Pilot--total	246,961	207,305	60,655	137,670	8,980	39,656	27,751	7,187	4,718
Student	131,384	131,384	---	131,384	---	---	---	---	---
Private	62,937	53,140	47,681	2,364	3,095	9,797	8,837	657	303
Commercial	41,592	16,769	11,590	762	4,417	24,923	18,585	2,296	3,942
Airline transport	7,615	3,224	491	2,733	---	4,391	194	4,193	4
Helicopter (only)	2,226	1,719	97	171	1,451	507	17	29	461
Glider (only) ...	1,023	892	738	138	16	131	113	10	8
Other pilot	184	177	58	118	1	7	5	2	---
Non-pilot--total ...	24,371	15,857	8,364	2,305	5,188	8,514	7,109	388	1,017
Mechanic	11,684	8,355	5,341	754	2,260	3,329	2,784	287	258
Parachute rigger.	481	418	225	110	83	63	48	12	3
Ground instructor	3,238	2,506	1	---	2,505	732	1	---	731
Dispatcher	135	135	34	101	---	---	---	---	---
Control tower									
Operator	6,090	1,863	1,857	5	1	4,227	4,222	4	1
Flight navigator.	70	70	2	2	66	---	---	---	---
Flight engineer .	2,673	2,510	904	1,333	273	163	54	85	24
Flight instructor*..	9,301	6,199	---	6,198	1	3,102	---	3,102	---

Note: Excludes renewals.

*Special ratings shown on pilot certificates represented above, not to be added to total.

Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot--aircraft category, class, and type ratings and instrument ratings.

Helicopter pilot--Instrument and type ratings.

Flight instructor--ratings for each aircraft category in which the holder is qualified to instruct and for instrument flying instruction.

Mechanic--airframe and powerplant ratings.

Parachute rigger--senior or master rigger ratings.

Ground instructor--ratings for each subject in which the holder is qualified to give ground instruction. Air traffic control tower operator--junior/senior ratings for airports where holder may control air traffic.

Table 23.--Instrument Ratings Issued: 1973-1971

Class of Certificate	1973	1972	1971	Percent change 1972-1973
Total--all groups	19,590	17,311	17,207	+13
Private pilots--total	<u>4,587</u>	<u>3,853</u>	<u>3,625</u>	<u>+19</u>
Private airplane (only)	<u>4,069</u>	<u>3,380</u>	<u>3,048</u>	<u>+20</u>
Private airplane, private glider	65	61	44	+7
Private airplane, commercial glider	1	4	4	-75
Private airplane, private helicopter	12	8	13	+50
Private airplane, commercial helicopter ...	284	288	101	-1
Private airplane, private glider, private helicopter	1	1	---	---
Private airplane, other	155	111	415	+40
Commercial pilots--total	<u>13,445</u>	<u>12,234</u>	<u>13,036</u>	<u>+10</u>
Commercial airplane (only)	<u>11,437</u>	<u>10,385</u>	<u>11,340</u>	<u>+10</u>
Commercial airplane, private glider	43	78	56	-45
Commercial airplane, commercial glider	108	72	60	+50
Commercial airplane, private helicopter ...	6	4	2	+50
Commercial airplane, commercial helicopter.	1,828	1,684	1,556	+9
Commercial airplane, private glider commercial helicopter	6	4	6	+50
Commercial airplane, commercial glider commercial helicopter	14	7	16	+100
Commercial airplane, other	3	---	---	---
Rotorcraft pilots--total	<u>1,558</u>	<u>1,224</u>	<u>546</u>	<u>+27</u>
Commercial helicopter	<u>1,554</u>	<u>1,220</u>	<u>546</u>	<u>+27</u>
Airline transport helicopter	1	---	---	---
Commercial helicopter, private glider	1	1	---	---
Commercial helicopter, other	2	3	---	-33

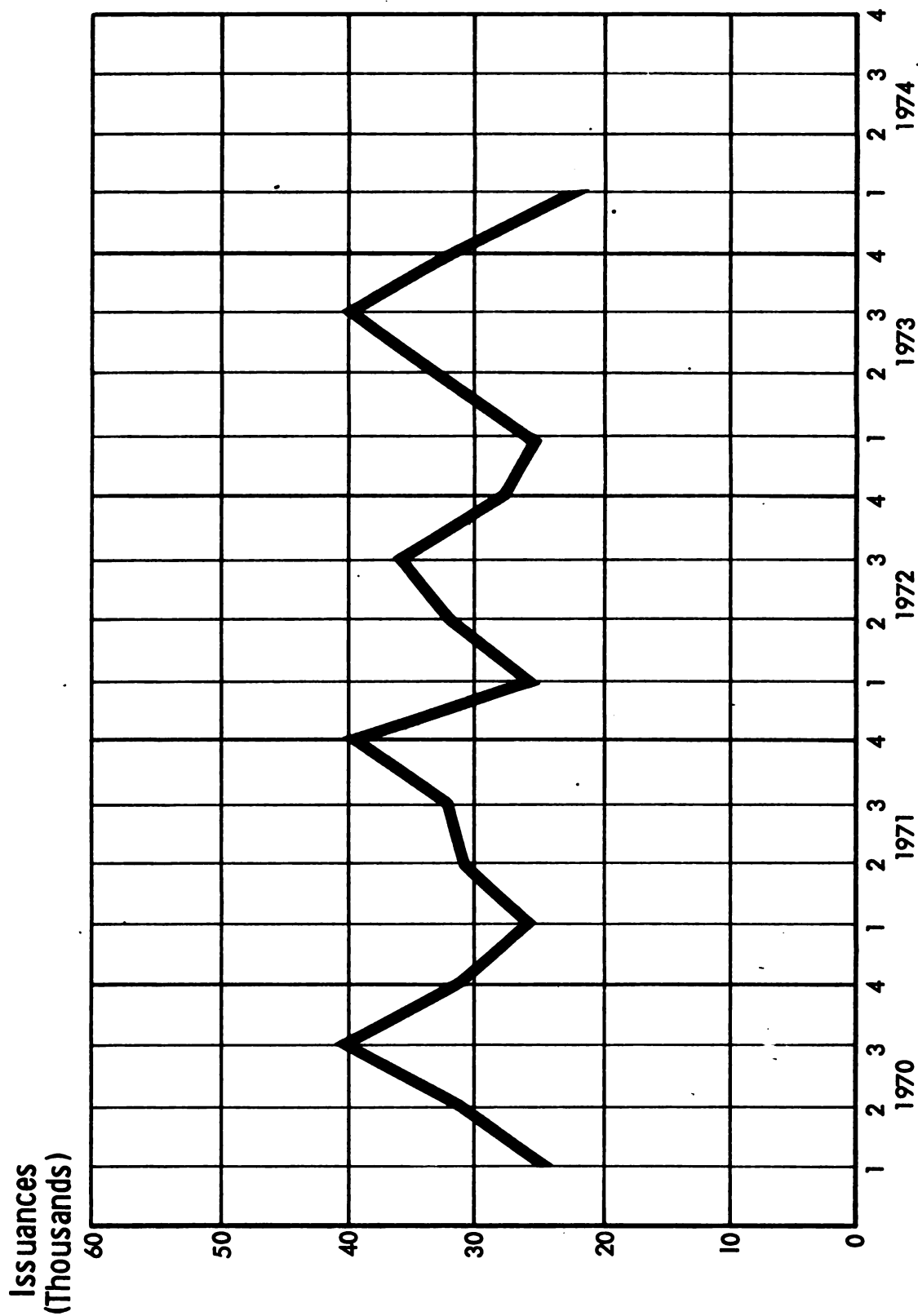


Figure 5. Student Certificates Issued Quarterly: 1970-74

Table 24.--Student Certificates Issued by Month: 1969-1973

Month	1973	1972	1971	1970	1969
Total	131,384	121,543	128,004	126,871	132,926
January	7,608	7,515	8,131	6,856	8,677
February	8,622	7,936	7,458	7,706	8,094
March	9,963	10,176	10,314	9,871	9,405
April	10,513	10,445	9,406	10,298	11,766
May	10,712	10,495	10,490	9,341	10,990
June	12,242	11,174	11,451	11,799	12,811
July	13,473	10,366	13,146	13,966	14,512
August	14,643	15,007	13,785	14,290	13,965
September	11,568	10,850	12,314	12,114	11,751
October	11,715	10,962	12,338	13,095	14,620
November	12,385	10,298	10,853	9,297	8,363
December	7,940	6,319	8,318	8,238	7,972

